Application Serial No.: 10/648,944

Amendment and Response/Election dated August 28, 2006

In reply to Office Action mailed August 1, 2006

Amendment to the Claims:

This listing of claims will replace all prior versions, and listing, of claims in the application.

Listing of Claims:

1. (original) An automatic keypad lockout system, comprising:

a portable communication device having a keypad;

an accessory for receiving the portable communication device; and

a means for detecting insertion and removal of the portable communication

device into and out of the accessory so as to enable and disable the keypad.

2. (currently amended) The automatic keypad lockout system of claim 1, wherein

the means for detecting is selected from one of magnetic, electrical, optical, and mechanical

implementations.

3. (original) The system of claim 2, wherein the magnetic implementation

comprises:

a magnetic reed switch within the device; and

a corresponding magnet within the accessory for opening and closing the switch.

4. (original) The system of claim 3, wherein the reed switch remains closed when

the portable communication device is outside of the accessory thereby enabling the keypad;

and

the magnetic field from the accessory magnet opens the switch when the device is

inserted into the accessory thereby disabling the keypad.

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5. (original) The system of claim 3, wherein the reed switch remains open when

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the portable communication device is outside of the accessory thereby enabling the keypad;

and

the magnetic field from the accessory magnet closes the switch when the device is

inserted into the accessory thereby disabling the keypad.

6. (original) The system of claim 2, wherein the electrical implementation

comprises:

contacts on the surface of the device; and

corresponding contacts on the accessory, the corresponding contacts

electrically short-circuit the contacts on the device when the device is inserted into the

accessory to disable the keypad and open circuit the contacts on the device to enable the

keypad when the device is removed from the accessory.

7. (original) The system of claim 6, wherein at least one contact on the device is

pulled to a reference voltage when open-circuited and is coupled to ground when short-

circuited.

8. (original) The system of claim 6, wherein at least one contact on the device is

pulled to ground when open-circuited and is coupled to a reference voltage when short-

circuited.

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9. (original) The system of claim 2, wherein the optical implementation

comprises:

an infrared light-emitting diode (IR LED) in the device;

an IR phototransistor in the device for receiving light from the LED;

the accessory disabling and enabling the reception of light based on the

position of the device.

10. (original) The system of claim 9, wherein the optical implementation further

comprises:

a slot formed within the device between the IR LED and the IR

phototransistor;

a tab in the accessory, the tab for inserting and removing from the slot of the

device.

11. (original) The system of claim 10, wherein:

the device turns the photodiode on periodically and monitors the phototransistor to

determine if the IR LED is detected;

when the device is out of the accessory, a periodic pulse of the LED is detected by the

phototransistor;

when the device is inserted into the accessory, the tab on the accessory inserts into the

slot on the device thereby blocking the path of light between the LED and phototransistor,

allowing the device to detect the presence of the accessory due to the absence of a received

light pulse at the phototransistor.

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12. (original) The system of claim 9, wherein the optical implementation further

comprises:

an IR-transparent plastic lens mounted to the device for contacting the accessory;

the pulses of light from the LED reflecting from the accessory and being detected by

the phototransistor when the device is inserted into its holster,

the pulse not reflecting when the device is separated from the accessory thereby

disabling the reflections.

13. (original) The system of claim 2, wherein the mechanical implementation

comprises:

a mechanically-actuated switch on the device, the switch engaging and disengaging

when the device is inserted into and removed from the accessory.

14. (original) The system of claim 13, wherein the mechanically activated switch

enables and disables the keypad in response to the switch being engaged and disengaged.

15. (original) The automatic keypad lockout system of claim 1, further comprising:

a unique ID stored in the accessory, the unique ID associated with a predetermined

user configuration; and

the portable communication device reading the unique ID from the accessory and

assuming the predetermined configuration associated with that ID.

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16. (original) The automatic keypad lockout system of claim 15, further comprising:

a plurality of reed switches embedded in the device; and

an array of magnets embedded in the accessory for aligning and mating with at least

one of the plurality of reed switches forming a predefined pattern corresponding to the unique

ID.

17. (original) The automatic keypad lockout system of claim 15, further comprising:

at least one voltage divider circuit, at least one component of which is embedded in

the accessory, a value of the at least one component embedded in the accessory determining

the unique ID associated with the accessory; and

an analog-to-digital converter (ADC) for reading the voltage divider circuit to

determine the presence of the accessory and the unique ID associated with the accessory.

18. (original) The automatic keypad lockout system of claim 15, further comprising:

a plurality of infrared LED and phototransistor pairs embedded in the device between

at least one recessed slot:

at least one tab integral to the accessory to mate into the slots for blocking light of at

least one of the plurality of infrared LED/phototransistor pairs, the presence and absence of

tabs controlling the light and thereby encoding different ID numbers.

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19. (original) The automatic keypad lockout system of claim 18, wherein the plurality

of infrared LEDs are pulsed periodically and the phototransistors are monitored for

corresponding pulses, the presence and lack of pulses corresponding to bits used for decoding

the unique ID of the accessory.

20. (original) The automatic keypad lockout system of claim 15, further comprising:

a plurality of mechanical switches at the device; and

an array of protrusions and recesses patterned on the accessory, the protrusions

actuating corresponding mechanical switches on the device and the recesses having no effect

on the mechanical switches when the device is mated with the accessory, the array of

protrusions and recesses patterned on the accessory encoding a particular ID to the device

through the actuated mechanical switches.

21. (original) The automatic keypad lockout system of claim 1, further comprising:

an alterable ID stored in the accessory; and

the portable communication device reading the alterable ID from the accessory and

assuming predetermined personal settings associated with that alterable ID.

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22. (original) An automatic keypad lockout system, comprising:

a portable electronic device having a keypad;

an accessory with which to couple the portable electronic device;

the portable electronic device disabling the keypad when coupled to the accessory and enabling the keypad when not coupled to the accessory;

an ID stored in the accessory; and

the portable electronic the device, when coupled to the accessory, reading the ID and assuming a predetermined configuration associated with that ID until the portable communication device is coupled to another accessory containing a different ID.

- 23. (original) The automatic keypad lockout system of claim 22, wherein the ID is an alterable 1D.
- 24. (original) The automatic keypad lockout system of claim 23, wherein the portable electronic device, when coupled to the accessory, reads a current configuration of the alterable ID and assumes a predetermined personalized setting associated with that ID.

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- 25. (original) A communication system, comprising:
- a portable electronic device having a keypad;
- a plurality of accessories with which to couple to the portable electronic device, a unique ID stored in each of the plurality of accessories;

the portable electronic device disabling the keypad when coupled to any of the plurality of accessories and enabling the keypad when not coupled to any of the plurality of accessories;

and

the portable electronic the device, when coupled to the accessory, reading the unique ID and assuming the predetermined configuration associated with that ID.